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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/516,567	04/03/2006	Peter Joseph Unsworth	BKB-004US	5511
959 LAHIVÉ & CO	7590 05/11/2007 OCKFIELD, LLP	. EXAMINER		
ONE POST OF	FFICE SQUARE		TSAI, CAROL S W	
BOSTON, MA 02109-2127			ART UNIT	PAPER NUMBER
			2857	
			MAIL DATE	DELIVERY MODE
	•		05/11/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)				
	10/516,567	UNSWORTH ET AL.				
Office Action Summary	Examiner	Art Unit				
	Carol S. Tsai	2857				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timulated and will expire SIX (6) MONTHS from a cause the application to become ABANDONE!	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 08 M	Responsive to communication(s) filed on <u>08 March 2007</u> .					
• — • • • • • • • • • • • • • • • • • •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 18-38 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>18-21,23-28,30 and 37</u> is/are rejected						
7)⊠ Claim(s) <u>22,29,31-36 and 38</u> is/are objected to. 8)□ Claim(s) are subject to restriction and/or election requirement.						
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Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	,					
1) Notice of References Cited (PTO-892) A) Interview Summary (PTO-413) Paper No(s)/Mail Date						
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P					

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DETAILED ACTION

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 20, 21, 23, and 24 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

In claim 20, line 2, the new matter "the amplitude-related value are stored in a computer memory" is not proper claimed in the amendment filed March 8, 2007.

In claim 23, line 7, the new matter "said apparatus further comprising a computer processor and a computer memory containing a calibration correlation data" is not proper claimed in the amendment filed March 8, 2007.

In claim 23, line 7, the new matter "said apparatus further comprising a computer processor and a computer memory containing a calibration correlation data" is not proper claimed in the amendment filed March 8, 2007.

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In claim 24, line 1, the new matter "A computer memory having, for a specific vortex flowmeter, a correlation" is not proper claimed in the amendment filed March 8, 2007.

Applicant is required to cancel the new matter in the reply to this Office Action.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 18, 19, 23-28, 30, and 37 are rejected under 35 U.S.C. 102(b) as being anticipated by U. S. Patent No. 5,095,760 to Lew.

As to claims 18, 19, 23-28, 30, and 37, Lew discloses a method of monitoring or determining a flow rate of at least one fluid phase in a closed conduit having a vortex flowmeter through which a fluid to be monitored flows, said flowmeter having a sensor adapted to provide a signal from which a shedding frequency may be derived, the method comprising (see Fig. 1 and col. 5, line 66 to col. 6, line 33): obtaining the signal from the sensor and determining the shedding frequency value from the signal related to a frequency at which vortices are shed in the vortex flowmeter, and also determining from the signal a signal amplitude-related value related to an amplitude of the signal at the shedding frequency (see Abstract, lines 1-14); and using both the shedding frequency value and the amplitude-related value to determine the flow rate of the at least one fluid phase, said amplitude related value being used, at a particular shedding frequency,

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to assist in the determination of the flow rate of the at least one fluid phase (see col. 6, lines 44-58).

Lew does not disclose expressly a two or a three phase fluid flow, but it is considered inherent, because vortex flowmeters is known to be suitabley adapted for the measurement for two-phase fluid flows.

Allowable Subject Matter

6. Claims 22, 29, 31-36 and 38 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

7. Applicant's arguments with respect to claims 18-21, 23-28, 30, and 37 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

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final action.

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this

Contact Information

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carol S. Tsai whose telephone number is (571) 272-2224. The examiner can normally be reached on M-F (8:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Barlow can be reached on 571-272-2269. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

cswt May 9, 2007

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CAROL S.W. TSAI

als. Us!